



SPECIALIZED
HANDLING PRODUCTS



Overview

Entegris' specialized handling products for 125 mm and 100 mm wafer handling include shipping boxes, wafer carriers, storage boxes, handles and other accessories. Entegris continues to offer select specialized carriers and accessories that you have come to rely on for processing wafers smaller than 100 mm, LCDs and other small devices. These products include miscellaneous device carriers, handles and labware. Extended lead times and minimum order quantities (MOQs) apply. For more information contact Entegris Customer Service at +1 952 556 4181 or visit www.entegris.com.

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NOTE: STAT-PRO material refers to Entegris' proprietary material blends used in Entegris products. For specific material descriptions corresponding to the STAT-PRO number shown, please see page 37.

125 mm (5") Wafer Handling

Entegris offers a complete line of products for handling your 125 mm wafers including wafer shipping boxes and carriers, storage boxes and other accessories.

Multiple Wafer Shipping Boxes

Ultrapak® Series

- Individual horizontal cantilever springs limit wafer rotation to reduce particle contamination and also secure the wafers in the cassette to safeguard against breakage.
- Ultrapure polypropylene materials provide a clean shipping environment and assure low levels of condensable inorganics.
- Horizontal and vertical robotic pickup flanges on the cassette allow convenient handling.
- Center notch track alignment and "H" bar ensure accurate equipment interoperability both vertically and horizontally.
- Assembly overall size: 161 mm × 177 mm × 160 mm (6.4" × 7.0" × 6.3")
- Cassette:
D1: 14.53 mm (0.57")
Pitch: 4.76 mm (0.19")
Overall size: 144 mm × 153 mm × 146 mm (5.7" × 6.0" × 5.8")
- Extended lead times and minimum order quantities apply



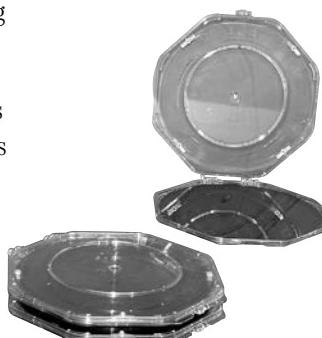
Ordering Information

| Part Number | Material | Description |
|-------------|---------------------------|--------------------------|
| H9125-0028 | High-purity polypropylene | Assembly, shrink-wrapped |
| H9125-0029 | High-purity polypropylene | Assembly, cleaned |

Single Wafer Shippers

H93 Series

- Holds one wafer facedown contacting only the wafer's edges
- Contains four inserted cushions to retain wafer and minimize particle generation
- Tweezer slots on shipper bottom ease wafer removal
- Stackable for efficient use of storage space
- Large area on lid provides space for labeling
- Pin-in-socket hinge allows shipper to be opened completely without tipping backwards
- Polypropylene replacement cushions available to retrofit existing packages
- Clear polycarbonate material protects wafer and allows visual inspection without opening
- Extended lead times and minimum order quantities apply



Ordering Information

| Part Number | Material | Description | Material |
|-----------------|---|--------------------------------------|---------------------|
| H93-50-101-1116 | 152 mm × 135 mm × 20.3 mm (6.0" × 5.3" × 0.80") | Shipper | Clear polycarbonate |
| H93-100A | | Replacement cushions, package of 100 | Polypropylene |

H22 Series

- Conical pocket holds one wafer facedown contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply



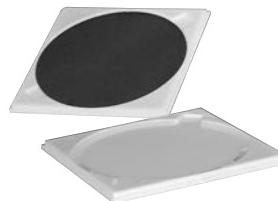
Ordering Information

| Part Number | Material | Description |
|---------------|----------|-----------------------|
| H22-50-0615 | Tray | Natural polypropylene |
| H22-501-0615 | Cover | Natural polypropylene |
| H22-502-0615 | Spring | Natural polypropylene |
| H22-50-62C02 | Tray | STAT-PRO 150 |
| H22-501-62C02 | Cover | STAT-PRO 150 |
| H22-502-62C02 | Spring | STAT-PRO 150 |

Single Wafer Trays

H20 Series

- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



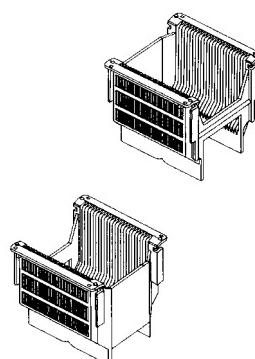
Ordering Information

| Part Number | Overall Size | Description | Material |
|------------------|-------------------|-------------|-------------|
| H20-4000-01-1415 | 140 mm sq. (5.5") | Tray | Natural ABS |

Wafer Carriers

194 Series*

- Optimum performance for automated equipment
- Open sidewall style
- "H" bar equipment interface
- Locating track notches at the center of the 13th pocket
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Available materials: Natural PFA, STAT-PRO 100, blue polypropylene
- Overall size: 143 mm × 152 mm × 146 mm (5.7" × 6.0" × 5.8")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information



A194-50MB

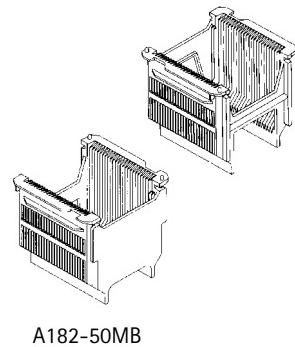
*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952 556 4181 for detailed information on specific products.

125 mm (5") Wafer Handling (continued)

182 Series*

- Open sidewall style with wraparound wash slots
- "H" bar equipment interface
- 26th slot for identification tag
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")

- Available materials: Natural PFA, STAT-PRO 1000, STAT-PRO 100, blue polypropylene
- Overall size: 143 mm × 152 mm × 146 mm (5.7" × 6.0" × 5.8")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information

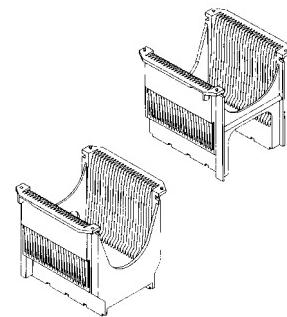


A182-50MB

72 Series*

- Original linear wafer carrier
- Wash openings in sidewall
- "H" bar equipment interface
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.00 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")

- Available materials: Natural PFA, STAT-PRO 1000, STAT-PRO 100, blue polypropylene
- Overall size: 142 mm × 152 mm × 146 mm (5.6" × 6.0" × 5.8")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information

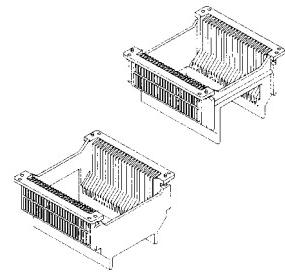


A72-50M

190 Series*

- Optimum performance in centrifugal processing applications
- Low contour, open flow sidewall style
- "H" bar equipment interface
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.40 mm (0.06")

- Available material: Natural PFA
- Overall dimensions:
A190-50M-0215: 143 mm × 152 mm × 95 mm (5.7" × 6.0" × 3.8")
A190-50MHJ-0215: 142 mm × 141 mm × 95 mm (5.6" × 5.6" × 3.7")
- Extended lead times and minimum order quantities may apply
- See page 5 for ordering information



A190-50M

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952 556 4181 for detailed information on specific products.

Ordering Information*

| Part Number | End Wall Configuration | "H" Bar End Flanges | Compatible Boxes | Material | Notes |
|------------------|------------------------|---------------------|------------------|--------------------|---|
| A194-50MB-0215 | Solid, flanges | Yes | E89, E93 | Natural PFA | |
| PA194-50MB-61C02 | Solid, flanges | Yes | E89, E93 | STAT-PRO 100 | |
| PA194-50MB-0603 | Solid, flanges | Yes | E89, E93 | Blue polypropylene | |
| A182-50M-0215 | Solid | No | E89, E93 | Natural PFA | |
| A182-50MB-0215 | Solid, flanges | No | E89, E93 | Natural PFA | |
| A182-50MC-0215 | Window, flanges | No | E89, E93 | Natural PFA | |
| A182-50MU-0215 | "U" shape, flanges | Yes | E89, E93 | Natural PFA | |
| PA182-50M-61C02 | "U" shape | No | E89, E93 | STAT-PRO 100 | |
| PA182-50MB-61C02 | Solid, flanges | No | E89, E93 | STAT-PRO 100 | |
| PA182-50M-0603 | "U" shape | No | E89, E93 | Blue polypropylene | Red, green, yellow and natural colors available |
| PA182-50MB-0603 | Solid, flanges | No | E89, E93 | Blue polypropylene | |
| PA182-50MC-0603 | Window, flanges | No | E89, E93 | Blue polypropylene | |
| A72-50M-0215 | "U" shape | No | E89, E93 | Natural PFA | |
| PA72-50M-61C02 | "U" shape | No | E89, E93 | STAT-PRO 100 | |
| PA72-50M-0603 | "U" shape | No | E89, E93 | Blue polypropylene | |
| A190-50M-0215 | Solid, flanges | No | — | Natural PFA | |

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125 mm (5") Wafer Handling (continued)

Storage Boxes

E89 Series

- One snap latch or one swing pin latch
- Pin and socket hinges
- Stackable
- Single carrier capacity
- Optional wafer cushion
- Compatible carriers: 194 series, 182 series, "M" style 72 series

- Available materials: STAT-PRO 100, blue polypropylene
- Overall size: 193 mm × 180 mm × 165 mm (7.6" × 7.1" × 6.5")
- Extended lead times and minimum order quantities may apply
- See below for ordering information



E89-102

E93 Series

- Two snap latches, one swing pin latch or three swing pin latches
- Pin and socket hinges
- Stackable
- Two carrier capacity
- Optional wafer cushion
- Compatible carriers: 194 series, 182 series, "M" style 72 series

- Available materials: STAT-PRO 100, blue polypropylene
- Overall size: 148 mm × 180 mm × 165 mm (7.8" × 13" × 6.5")
- Extended lead times and minimum order quantities may apply
- See below for ordering information



E93-102

Ordering Information

| Part Number | Latch | Optional Cushion | Optional Envelopes | Material |
|---------------|------------------|------------------|----------------------------|--------------------|
| E89-101-61C02 | Single snap | E95-1-0815 | E96-2-1613 E96-2P-21A15 | STAT-PRO 100 |
| E89-101-0603 | Single snap | E95-1-0815 | E96-2-1613 E96-2P-21A15 | Blue polypropylene |
| E89-102-61C02 | Single swing pin | E95-1-0815 | E96-2-1613 E96-2P-21A15 | STAT-PRO 100 |
| E89-102-0603 | Single swing pin | E95-1-0815 | E96-2-1613 E96-2P-21A15 | Blue polypropylene |
| E93-101-61C02 | Two snap | E95-1-0815 | E96-4-1613 E96-4P-21A15 | STAT-PRO 100 |
| E93-101-0603 | Two snap | E95-1-0815 | E96-4-1613 E96-4P-21A15 | Blue polypropylene |
| E93-102-61C02 | Single swing pin | E95-1-0815 | E96-4-1613 E96-4P-21A15 | STAT-PRO 100 |
| E93-102-0603 | Single swing pin | E95-1-0815 | E96-4-1613 E96-4P-21A15 | Blue polypropylene |
| E93-103-0603 | Three swing pin | E95-1-0815 | E96-4-1613 E96-4P-21A15 | Blue polypropylene |
| E93-103-61C02 | Three swing pin | E95-1-0815 | E96-4-1613 E96-4P-21A15 | STAT-PRO 100 |

Accessories

Wafer Carrier Handles

- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

Ordering Information

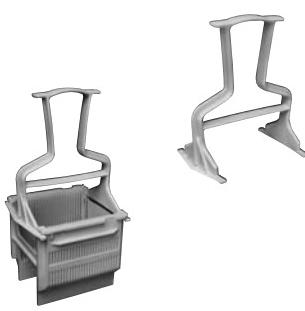
| Part Number | Handle Style | Description | Compatible Wafer Carriers | Overall size | Material |
|-----------------|--------------------------|--|---|---|--------------------|
| A72-50-03-0215 | Squeeze | Attaches to the notches on both end walls of carrier | All "M" style 182 series, 194 series, 72 series, 190 series | 163 mm x 140 mm x 183 mm (6.4" x 5.5" x 7.2") | Natural PFA |
| PA72-50-03-0603 | | | | | Blue polypropylene |
| A040-101-0215 | Squeeze with lock bar | Attaches to the notches on both end walls of carrier | All "M" style 182 series, 194 series, 72 series | 165 mm x 130 mm x 165 mm (6.5" x 5.1" x 6.5") | Natural PFA |
| A047-0215 | Squeeze with support bar | Attaches to the notches on both end walls of carrier | All "M" style 182 series, 194 series, 72 series | 165 mm x 152 mm x 203 mm (6.5" x 6.0" x 8.0") | Natural PFA |
| A72-50-04B-0215 | Slingshot | Slides onto the top flanges of carrier | All "M" style 182 series, 194 series | 15 mm x 170 mm x 246 mm (0.6" x 6.7" x 9.7") | Natural PFA |
| A72-50-04-0215 | Slingshot | Slides onto the top flanges of carrier | All 72 series | 15 mm x 170 mm x 246 mm (0.6" x 6.7" x 9.7") | Natural PFA |



A72-50-03



A040-101



A047



A72-50-04, A72-50-04B

125 mm (5") Wafer Handling (continued)

Wafer Carrier Wafer Retainer

- Secures wafers in carrier
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



Ordering Information

| Part Number | Overall Size (L × W × H) | Compatible Carriers | Material |
|----------------|---|---------------------|-------------|
| A72-50-02-0215 | 135 mm × 165 mm × 18 mm (5.3" × 6.5" × 0.7") | All 125 mm | Natural PFA |

Storage Box Cushions

- Snap inside box covers to provide added wafer security
- Extended lead times and minimum order quantities apply

Ordering Information

| Part Number | Compatible Storage Boxes | Material |
|-------------|--------------------------|--------------------------|
| E95-0815 | E89 series E93 series | Low-density polyethylene |

Storage Box Traveler Envelopes

- Flexible envelopes snap onto covers
- Extended lead times and minimum order quantities apply

Ordering Information

| Part Number | Compatible Storage Boxes | Material |
|----------------------|--------------------------|-----------------|
| E96-2-1613 flat | E89 series | Transparent PVC |
| E96-2P-21A15 pleated | | Antistatic PVC |
| E96-4-1613 flat | E93 series | Transparent PVC |
| E96-4P-21A15 pleated | | Antistatic PVC |

100 mm (4") Wafer Handling

Entegris offers a complete line of products for handling your 100 mm wafers including wafer shipping boxes and carriers, storage boxes and other accessories.

Multiple Wafer Shipping Boxes

Ultrapak Series

- Individual horizontal cantilever springs limit wafer rotation to reduce particle contamination and also secure the wafers in the cassette to safeguard against breakage.
- Ultrapure polypropylene materials provide a clean shipping environment and assure low levels of condensable inorganics.
- Horizontal and vertical robotic pickup flanges on the cassette allow convenient handling.
- Center notch track alignment and "H" bar ensure accurate equipment interoperability both vertically and horizontally.
- Assembly overall size: 163 mm × 146 mm × 120 mm (6.4" × 5.8" × 4.7")
- Cassette:
D1: 14.53 mm (0.57")
Pitch: 4.76 mm (0.19")
Overall size: 143 mm × 126 mm × 108 mm (5.6" × 5.0" × 4.3")
- Extended lead times and minimum order quantities apply



Ordering Information

| Part Number | Material | Description |
|-------------|---------------------------|--------------------------|
| H9100-0041 | High-purity polypropylene | Assembly, shrink-wrapped |
| H9100-0042 | High-purity polypropylene | Assembly, cleaned |

Ultrapak Thin Wafer Series

- Designed for thin Si and compound semiconductor applications
- Has added upper and lower cushion for thin wafer support
- Prevents wafer cross-slotting and improves radial support
- Horizontal and vertical robotic pickup flanges on the cassette allow convenient handling
- Center notch track alignment and "H" bar ensure accurate equipment interoperability both vertically and horizontally
- Assembly overall size: 146 mm × 162.6 mm × 119.4 mm (5.75" × 6.42" × 4.7")
- Cassette: D1: 14.5 mm (0.57")
Pitch: 114.3 mm (4.5")
Overall size: 143.3 mm × 125.7 mm × 107.8 mm (5.65" × 4.95" × 4.25")
- Extended lead times and minimum order quantities apply



Ordering Information

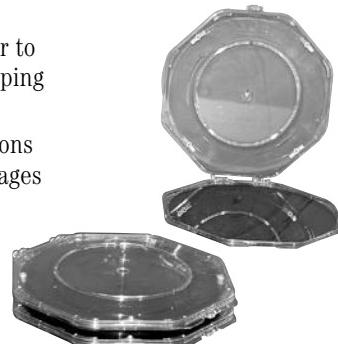
| Part Number | Description | Minimum Order Quantity |
|-------------|-----------------------------------|------------------------|
| H9100-0050 | Standard (offered shrink-wrapped) | 144 |
| H9100-0051 | Cleaned | 144 |

100 mm (4") Wafer Handling (continued)

Single Wafer Shippers

H93 Series

- Holds one wafer facedown contacting only the wafer's edges
- Contains four inserted cushions to retain wafer and minimize particle generation
- Tweezer slots on shipper bottom ease wafer removal
- Stackable for efficient use of storage space
- Large area on lid provides space for labeling
- Pin-in-socket hinge allows shipper to be opened completely without tipping backwards
- Polypropylene replacement cushions available to retrofit existing packages
- Clear polycarbonate material protects wafer and allows visual inspection without opening
- Extended lead times and minimum order quantities apply



Ordering Information

| Part Number | Overall Size | Description | Material |
|-----------------|--|---|---------------------|
| H93-40-101-1116 | 127 mm x 112 mm x 20.3 mm (5.0" x 4.4" x 0.80") | Shipper | Clear polycarbonate |
| H93-100A | | Replacement cushions, package of 100 | Polypropylene |

H22 Series

- Conical pocket holds one wafer facedown contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply



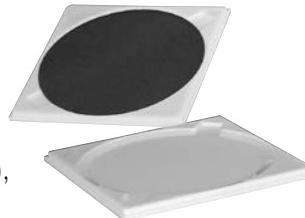
Ordering Information

| Part Number | Description | Material |
|---------------|-------------------|---------------------------|
| H22-40-0615 | Tray | Natural polypropylene |
| H22-401-0615 | Cover | Natural polypropylene |
| H22-402-0615 | Spring | Natural polypropylene |
| H22-402-0815 | Spring | Low-density polypropylene |
| H22-40A2-061 | Spring, low force | Natural polypropylene |
| H22-40-62C02 | Tray | STAT-PRO 150 |
| H22-401-62C02 | Cover | STAT-PRO 150 |
| H22-402-62C02 | Spring | STAT-PRO 150 |

Single Wafer Trays

H20 Series

- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



Ordering Information

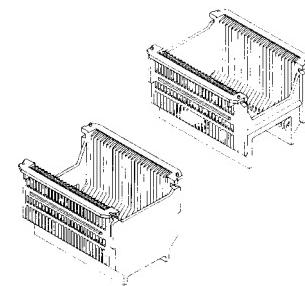
| Part Number | Overall Size | Description | Material |
|------------------|-------------------|-------------|---------------|
| H20-3000-01-1415 | 114 mm sq. (4.5") | Tray | Natural ABS |
| H20-3000-02-1216 | | Cover | Clear styrene |

Single Wafer Shippers

182 Series*

- Open sidewall style with wraparound wash slots
- "H" bar equipment interface
- Protective side wall design guards against damage from operator contact
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")

- Available materials: Natural PFA, STAT-PRO 1000, STAT-PRO 100, blue polypropylene
- Overall size: 143 mm × 126 mm × 108 mm (5.7" × 4.9" × 4.3")
- Extended lead times and minimum order quantities may apply
- See page 12 for ordering information

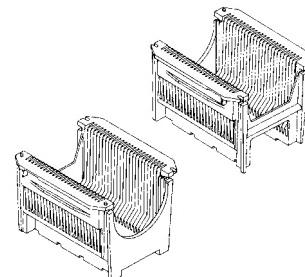


A182-39MLB

72 Series*

- Original linear wafer carrier
- Wash openings
- "H" bar equipment interface
- Pins and holes on top rail
- Both end walls have flanges that extend to the bottom of carrier
- Capacity: 25
- D1 dimension: 13.97 mm (0.55")

- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Available materials: Natural PFA, STAT-PRO 100, blue polypropylene
- Overall size: 142 mm × 126 mm × 114 mm (5.6" × 4.9" × 4.5")
- Extended lead times and minimum order quantities may apply
- See page 12 for ordering information

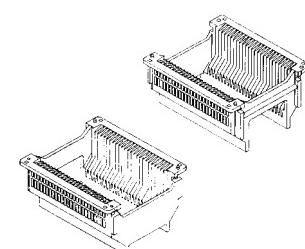


A72-40MB

190 Series*

- Optimum performance in centrifugal processing applications
- Low contour, open flow sidewall style
- "H" bar equipment interface
- Pins and holes on top rail
- Capacity: 25
- D1 dimension: 14.53 mm (0.57")
- Pocket spacing: 4.76 mm (0.19")

- Pocket flat: 1.40 mm (0.06")
- Available materials: Natural PFA
- Overall size: 143 mm × 126 mm × 76 mm (5.6" × 4.9" × 3.0")
- Extended lead times and minimum order quantities may apply
- See page 12 for ordering information



A190-40M

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952 556 4181 for detailed information on specific products.

100 mm (4") Wafer Handling (continued)

Ordering Information*

| Part Number | End Wall Configuration | "H" Bar End Flanges | Compatible Boxes | Material |
|-------------------|------------------------|---------------------|------------------|--------------------|
| A182-39M-0215 | Solid | No | E97, E88 | Natural PFA |
| A182-39MLB-0215 | Solid, flanges | No | E97, E88 | Natural PFA |
| A182-39MLC-0215 | Window, flanges | No | E97, E88 | Natural PFA |
| A182-39MU-0215 | "U" shaped, flanges | Yes | E97, E88 | Natural PFA |
| PA182-39M-61C02 | "U" shaped | No | E97, E88 | STAT-PRO 100 |
| PA182-39M-0603 | "U" shaped | No | E97, E88 | Blue polypropylene |
| PA182-39MLB-61C02 | Solid, flanges | No | E97, E88 | STAT-PRO 100 |
| PA182-39MLB-0603 | Solid, flanges | No | E97, E88 | Blue polypropylene |
| PA182-39MLC-61C02 | Window, flanges | No | E97, E88 | STAT-PRO 100 |
| PA182-39MLC-0603 | Window, flanges | No | E97, E88 | Blue polypropylene |
| A72-40MB-0215 | "U" shaped, flanges | Yes | E97, E88 | Natural PFA |
| PA72-40MB-61C02 | "U" shaped, flanges | Yes | E97, E88 | STAT-PRO 100 |
| PA72-40MB-0603 | "U" shaped, flanges | Yes | E97, E88 | Blue polypropylene |
| A190-40M-0215 | Solid, flanges | No | — | Natural PFA |

Storage Boxes

E97 Series

- Pin and socket hinges
- Single snap latch
- Stackable
- Optional wafer cushion
- Single carrier capacity
- Compatible carriers: 182 series, "M" style 72 series
- Available materials: STAT-PRO 100, blue polypropylene
- Overall size:
E97-101: 155 mm × 188 mm × 130 mm
(6.1" × 7.4" × 5.1")
E97-102: 155 mm × 193 mm × 130 mm
(6.1" × 7.6" × 5.1")
- Extended lead times and minimum order quantities apply
- See page 13 for ordering information



E97-102

*Significant dimensional differences may exist between different designs and materials within the same wafer carrier series. Please contact Entegris Customer Service at +1 952 556 4181 for detailed information on specific products.

E88 Series

- Pin and socket hinges
- Two snap latches or one swing pin latch
- Stackable
- Optional wafer cushion
- Two carrier capacity
- Compatible carriers: 182 series, "M" style
72 series
- Available materials: STAT-PRO 100,
blue polypropylene
- Overall dimensions:
E88-101: 282 mm × 198 mm × 132 mm
(11.1" × 7.8" × 5.2")
E88-102: 282 mm × 203 mm × 132 mm
(11.1" × 8.0" × 5.2")
- Extended lead times and minimum
order quantities apply
- See below for ordering information



E88-101

Ordering Information

| Part Number | Latch | Optional Envelopes | Optional Cushion | Material |
|---------------|------------------|----------------------------|------------------|--------------------|
| E97-101-61C02 | Single snap | E96-6-1613 E96-6P-21A15 | E95-4-0815 | STAT-PRO 100 |
| E97-101-0603 | Single snap | E96-6-1613 E96-6P-21A15 | E95-4-0815 | Blue polypropylene |
| E97-102-61C02 | Single swing pin | E96-6-1613 E96-6P-21A15 | E95-4-0815 | STAT-PRO 100 |
| E97-102-0603 | Single swing pin | E96-6-1613 E96-6P-21A15 | E95-4-0815 | Blue polypropylene |
| E88-101-61C02 | Two snap | E96-1-1613 E96-1P-21A15 | E95-3-0815 | STAT-PRO 100 |
| E88-101-0603 | Two snap | E96-1-1613 E96-1P-21A15 | E95-3-0815 | Blue polypropylene |
| E88-102-61C02 | Single swing pin | E96-1-1613 E96-1P-21A15 | E95-3-0815 | STAT-PRO 100 |
| E88-102-0603 | Single swing pin | E96-1-1613 E96-1P-21A15 | E95-3-0815 | Blue polypropylene |

100 mm (4") Wafer Handling (continued)

Accessories

Wafer Carrier Handles

- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181

Ordering Information

| Part Number | Handle Style | Description | Compatible Wafer Carriers | Overall size | Material |
|-----------------------------------|--------------------------|--|---|---|-----------------------------------|
| A72-50-03-0215 PA72-50-03-0603 | Squeeze | Attaches to the notches on both end walls of carrier | All "M" style 182 series, 194 series, 72 series, 190 series | 163 mm × 140 mm × 183 mm (6.4" × 5.5" × 7.2") | Natural PFA Blue polypropylene |
| A040-101-0215 | Squeeze with lock bar | Attaches to the notches on both end walls of carrier | All "M" style 182 series, 194 series, 72 series | 165 mm × 130 mm × 165 mm (6.5" × 5.1" × 6.5") | Natural PFA |
| A047-0215 | Squeeze with support bar | Attaches to the notches on both end walls of carrier | All "M" style 182 series, 194 series, 72 series | 165 mm × 152 mm × 203 mm (6.5" × 6.0" × 8.0") | Natural PFA |
| A72-50-04B-0215 | Slingshot | Slides onto the top flanges of carrier | All "M" style 182 series, 194 series | 15 mm × 170 mm × 246 mm (0.6" × 6.7" × 9.7") | Natural PFA |
| A72-50-04-0215 | Slingshot | Slides onto the top flanges of carrier | All 72 series | 15 mm × 170 mm × 246 mm (0.6" × 6.7" × 9.7") | Natural PFA |



A72-40-03, A72-40-06

A72-40-04,
A72-40-04B

A040-102



A048



A053

Wafer Carrier Wafer Retainer

- Secures wafers in carrier
- Compatible handle: A72-40-03
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



Ordering Information

| Part Number | Overall Size (L × W × H) | Compatible Carriers | Material |
|-----------------|---|---|----------|
| A72-40M-02-0215 | 102 mm × 135 mm × 15 mm (4.0" × 5.3" × 0.6") | A182-39M, PA182-39M, A72-40MB, PA72-40MB | PFA |

Storage Box Cushions

- Snap inside box covers to provide added wafer security
- Compatible with E97 series and E88 series storage boxes
- Extended lead times and minimum order quantities apply

Ordering Information

| Part Number | Compatible Storage Boxes | Material |
|-------------|--------------------------|--------------------------|
| E95-4-0815 | E97 series | Low-density polyethylene |
| E95-3-0815 | E88 series | Low-density polyethylene |

Storage Box Traveler Envelopes

- Flexible envelopes snap onto covers
- Extended lead times and minimum order quantities apply

Ordering Information

| Part Number | Compatible Storage Boxes | Material |
|----------------------|--------------------------|-----------------|
| E96-6-1613 flat | E97 series | Transparent PVC |
| E96-6P-21A15 pleated | | Antistatic PVC |
| E96-1-1613 flat | E88 series | Transparent PVC |
| E96-1P-21A15 pleated | | Antistatic PVC |

76.2 mm (3") Wafer Handling

Multiple Wafer Shipping Boxes

H6630 Series

- Full-depth wafer protection
- Positive cover alignment
- Individual wafer support springs
- Stackable
- Assembly overall size: 160 mm × 84 mm × 96 mm (6.3" × 3.3" × 3.8")
- Pitch: 4.76 mm (0.19")
- Extended lead times and minimum order quantities apply



Ordering Information

| Part Number | Description | Material |
|-------------|---------------------------------------|---------------------------|
| H6630-0009 | Assembly, shrink-wrapped | Natural polypropylene |
| H6630-0011 | Assembly, low-silicon, shrink-wrapped | Low-silicon polypropylene |
| H6630-0016 | Assembly, cleaned | Natural polypropylene |

Single Wafer Shippers

H22 Series

- Available for 90 mm, 3.25" and 3" wafers
- Conical pocket holds one wafer facedown contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply



Ordering Information

| Part Number | Wafer Size | Description | Material |
|----------------|------------|-------------------|--------------------------|
| H22-35-0615 | 90 mm | Tray | Natural polypropylene |
| H22-351-0615 | | Cover | Natural polypropylene |
| H22-352-0615 | | Spring | Natural polypropylene |
| H22-32-0615 | 3.25" | Tray | Natural polypropylene |
| H22-321-0615 | | Cover | Natural polypropylene |
| H22-32-62C02 | 3.25" | Tray | STAT-PRO 150 |
| H22-321-62C02 | | Cover | STAT-PRO 150 |
| H22-30-0615 | 3" | Tray | Natural polypropylene |
| H22-301-0615 | | Cover | Natural polypropylene |
| H22-302A-0615 | | Spring, low force | Natural polypropylene |
| H22-302-0815 | | Spring | Low-density polyethylene |
| H22-30-62C02 | 3" | Tray | STAT-PRO 150 |
| H22-301-62C02 | | Cover | STAT-PRO 150 |
| H22-302A-62C02 | | Spring | STAT-PRO 150 |

Single Wafer Trays

H20 Series

- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



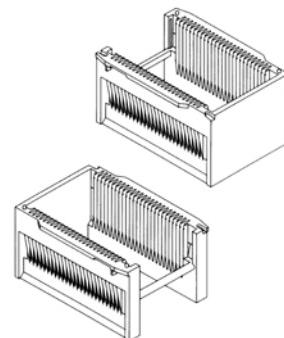
Ordering Information

| Part Number | Overall Size | Description | Material |
|------------------|------------------|-------------|---------------|
| H20-2000-01-1415 | 91 mm sq. (3.6") | Tray | Natural ABS |
| H20-2000-02-1201 | | Cover | Amber styrene |

Wafer Carriers

A72, PA72

- Round crossbar
- Wash openings
- Straight sidewalls
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.0 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Overall size: 142 mm × 94 mm × 83 mm (5.6" × 3.7" × 3.3")
- Compatible boxes: E52-101, E38-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



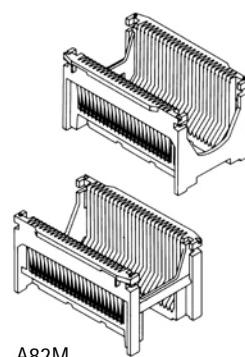
A72-30M

Ordering Information

| Part Number | End Wall Style | Material |
|---------------|----------------|--------------------|
| A72-30M-0215 | Solid | PFA |
| PA72-30M-0603 | "U" shaped | Blue polypropylene |

A82M, PA82M

- "H" bar equipment interface
- Flanges on the "H" bar end
- Wash openings
- Pins and holes on the top rail
- Capacity: 25
- D1 dimension: 14.0 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Overall size: 142 mm × 94 mm × 83 mm (5.6" × 3.7" × 3.3")
- Compatible boxes: E52-101, E38-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A82M

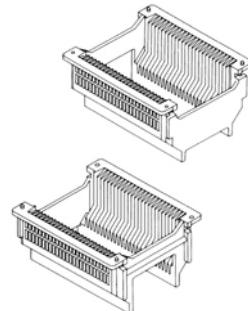
Ordering Information

| Part Number | Material |
|-------------|--------------------|
| A82M-0215 | PFA |
| PA82M-0603 | Blue polypropylene |
| PA82M-61C02 | STAT-PRO 100 |

76.2 mm (3") Wafer Handling (continued)

A190

- Optimum performance in centrifugal processing applications
- Low contour open flow sidewall style
- "H" bar equipment interface
- Flanges on the end wall and "H" bar end
- Solid end wall
- Pins and holes on the top rail
- D1 dimensions: 14.0 mm (0.55")
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.27 mm (0.05")
- Overall size: 142 mm × 94 mm × 60 mm (5.6" × 3.7" × 2.4")
- Compatible box: E52-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

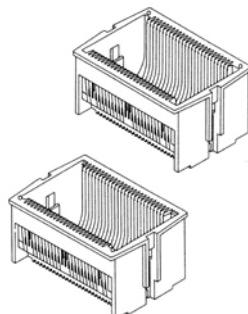


Ordering Information

| Part Number | Material |
|---------------|----------|
| A190-30M-0215 | PFA |

PA50-30

- Immersion style
- Solid end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Overall size: 155 mm × 94 mm × 83 mm (6.1" × 3.7" × 3.3")
- Compatible box: E52-101
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



Ordering Information

| Part Number | Material |
|--------------|--------------------|
| PA50-30-0603 | Blue polypropylene |

Storage Boxes

E52-101

- Angled box bottom
- Pin and socket hinges
- Three swing pin latches
- Stackable
- Two carrier capacity
- Optional cushion and envelope available
- Compatible carriers: All 3" wafer carriers
- Overall size: 203 mm × 236 mm × 114 mm (8.0" × 9.3" × 4.5")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



E52-101

Ordering Information

| Part Number | Description | Material |
|---------------|-------------|--------------------------|
| E52-101-0603 | Storage box | Blue polypropylene |
| E52-101-61C02 | Storage box | STAT-PRO 100 |
| E96-2P-21A15 | Envelope | Antistatic PVC |
| E96-2-1613 | Envelope | PVC |
| E95-7-0815 | Cushion | Low-density polyethylene |

E38-101

- End loading
- Friction snap-in cover
- Card slot on top
- One carrier capacity
- Compatible carriers: A82M, A72-30M
- Overall size: 157 mm × 102 mm × 102 mm (6.2" × 4.0" × 4.0")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

**Ordering Information**

| Part Number | Material |
|--------------|----------------------------|
| E38-101-0715 | High-density polypropylene |

Accessories**Wafer Carrier Handles**

- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A82-03



A048B

Ordering Information

| Part Number | Handle Style | Description | Compatible Wafer Carriers | Overall size | Material |
|--------------|--------------------------|--|---------------------------|--|--------------------|
| A82-03-0215 | Squeeze | Attaches to the notches on both end walls of carrier | A82M, PA82M | 165 mm × 91 mm × 157 mm (6.5" × 3.6" × 6.2") | Natural PFA |
| PA82-03-0603 | | | | | Blue polypropylene |
| A048B-0215 | Squeeze with support bar | Attaches to the notches on both end walls of carrier | Most 3" "M" style | 165 mm × 91 mm × 157 mm (6.5" × 3.6" × 6.2") | Natural PFA |

2.5" and Smaller Wafer Handling**Multiple Wafer Shipping Boxes****H6620 Series, 2"**

- Full-depth wafer protection
- Positive cover alignment
- Individual wafer support springs
- Stackable
- Assembly overall size: 160 mm × 60 mm × 67 mm (6.3" × 2.5" × 2.7")
- Pitch: 4.76 mm (0.19")
- Extended lead times and minimum order quantities apply



H6620-009

Ordering Information

| Part Number | Description | Material |
|-------------|---------------------------------------|---------------------------|
| H6620-0009 | Assembly, shrink-wrapped | Natural polypropylene |
| H6620-0010 | Assembly, cleaned | Natural polypropylene |
| H6620-0011 | Assembly, low-silicon, shrink-wrapped | Low-silicon polypropylene |

2.5" and Smaller Wafer Handling (continued)

Single Wafer Shippers

H22 Series

- Available for 2.5", 2", 1.5" and 1" wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Spring retains wafer and minimizes particle generation
- Stackable for efficient use of storage space
- Loose or lock stacking, either tray on tray or cover on tray
- Convenient screw on covers
- Large area on cover provides space for labeling
- Extended lead times and minimum order quantities apply



Ordering Information

| Part Number | Wafer Size | Description | Material |
|----------------|------------|-------------------|--------------------------|
| H22-25-0615 | 2.5" | Tray | Natural polypropylene |
| H22-251-0615 | | Cover | Natural polypropylene |
| H22-252-0615 | | Spring | Natural polypropylene |
| H22-252-0815 | | Spring | Low-density polyethylene |
| H22-25-62C02 | 2.5" | Tray | STAT-PRO 150 |
| H22-251-62C02 | | Cover | STAT-PRO 150 |
| H22-252-62C02 | | Spring | STAT-PRO 150 |
| H22-20-0615 | 2" | Tray | Natural polypropylene |
| H22-201-0615 | | Cover | Natural polypropylene |
| H22-202A-0615 | | Spring, low force | Natural polypropylene |
| H22-202-0815 | | Spring | Low-density polyethylene |
| H22-20-62C02 | 2" | Tray | STAT-PRO 150 |
| H22-201-62C02 | | Cover | STAT-PRO 150 |
| H22-202A-62C02 | | Spring | STAT-PRO 150 |
| H22-15-0615 | 1.5" | Tray | Natural polypropylene |
| H22-151-0615 | | Cover | Natural polypropylene |
| H22-152-0615 | | Spring | Natural polypropylene |
| H22-152-0815 | | Spring | Low-density polyethylene |
| H22-15-62C02 | 1.5" | Tray | STAT-PRO 150 |
| H22-151-62C02 | | Cover | STAT-PRO 150 |
| H22-152-62C02 | | Spring | STAT-PRO 150 |
| H22-10-0615 | 1" | Tray | Natural polypropylene |
| H22-101-0615 | | Cover | Natural polypropylene |
| H22-102-0815 | | Spring | Low-density polyethylene |
| H22-10-62C02 | 1" | Tray | STAT-PRO 150 |
| H22-101-62C02 | | Cover | STAT-PRO 150 |

Single Wafer Trays

H20 Series

- Available for 2.25", 1.5" and 1.2" wafers
- For internal handling of single wafers
- Conical pocket holds one wafer face-down contacting only the wafer's edges
- Tweezer slots on tray bottom ease wafer removal
- Stackable for efficient use of storage space, either tray on tray or cover on tray
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



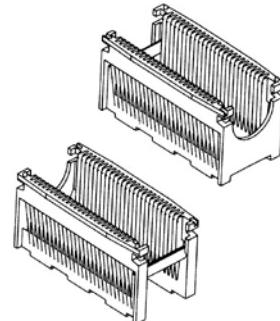
Ordering Information

| Part Number | Wafer Size | Overall Size | Description | Material |
|-----------------|------------|------------------|-------------|---------------|
| H20-520-01-1415 | 2.25" | 67 mm sq. (2.6") | Tray | Natural ABS |
| H20-520-02-0201 | | | Cover | Amber styrene |
| H20-500-1415 | 1.5" | 51 mm sq. (2.0") | Tray | Natural ABS |
| H20-02-1415 | | | Cover | Natural ABS |
| H20-02-1216 | | | Cover | Clear styrene |
| H20-02-1201 | | | Cover | Amber styrene |
| H20-250-1415 | 1.2" | 51 mm sq. (2.0") | Tray | Natural ABS |
| H20-02-1415 | | | Cover | Natural ABS |
| H20-02-1216 | | | Cover | Clear styrene |
| H20-02-1201 | | | Cover | Amber styrene |

2.5" Wafer Carriers

A72-25M, PA72-25M

- Crossbar
- "U" shaped end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.27 mm (0.05")
- D1 dimension: 14.0 mm (0.55")
- Overall size: 142 mm × 79 mm × 73 mm (5.6" × 3.1" × 2.9")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A72, PA72

Ordering Information

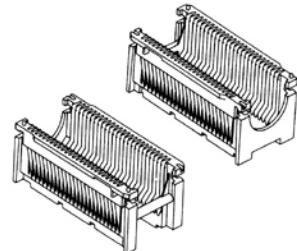
| Part Number | Material |
|---------------|--------------------|
| A72-25M-0215 | PFA |
| PA72-25M-0603 | Blue polypropylene |

2.25" Wafer Carriers

A72-22M, PA72-22M

- Crossbar
- "U" shaped end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")

- D1 dimension: 14.0 mm (0.55")
- Overall size: 142 mm × 73 mm × 67 mm (5.6" × 2.9" × 2.6")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A72-22M, PA72-22M

Ordering Information

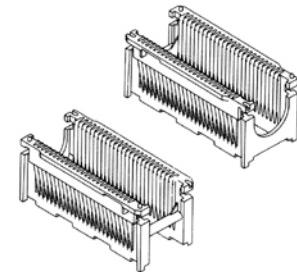
| Part Number | Material |
|---------------|--------------------|
| A72-22M-0215 | PFA |
| PA72-22M-0603 | Blue polypropylene |

2" Wafer Carriers

A72-20M, PA72-20M

- Crossbar
- "U" shaped end wall
- Wash openings
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.02 mm (0.04")

- D1 dimension: 14.0 mm (0.55")
- Overall size: 142 mm × 68 mm × 59 mm (5.6" × 2.7" × 2.3")
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A72-20M, PA72-20M

Ordering Information

| Part Number | Material |
|---------------|--------------------|
| A72-20M-0215 | PFA |
| PA72-20M-0603 | Blue polypropylene |

Storage Boxes

E04

- Textured, nonslip surface
- Liftoff cover
- Friction seal only
- Box capacity: one carrier

- Compatible carriers: 2", 2.25" and 2.5" A72 and PA72 wafer carriers
- Extended lead times apply
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

Ordering Information

| Part Number | Material |
|-------------|-------------------------------|
| E04-1202 | Black high impact polystyrene |



E04

Miscellaneous Device Carriers

Adjustable Carriers

- For rectangular devices
- Adjust to hold specific sizes
- Rails permit universal assembly to accommodate various widths
- Assembly required
- Compatible handles: A018, A027, A031, A044
- Compatible storage box: E127-101 available for AC-101 carrier only
- E127-101 two-piece storage box has transparent cover which allows easy identification of contents
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



AC-101



E127-101



A135-11



A135-12

Ordering Information

| Part Number | Device Size (L × W) | Pocket Flat | Capacity | Assembled Size (L × W × H) | Material |
|---------------------------|---|----------------|-----------|---|--------------------|
| AC-101-0603 carrier | 6.4 mm to 56.2 mm (0.25" to 2.25") | — | 20 | 102 mm × 83 mm × 36 mm (4.0" × 3.3" × 1.4") | Blue polypropylene |
| E127-101-5115 storage box | Holds AC-101-0603 carrier | — | 1 carrier | 154 mm × 136 mm × 105 mm (6.0" × 5.4" × 4.2") | Transparent PETG |
| A135-11-0215 carrier | 38 mm to 102 mm × 76 mm (1.5" to 4.0" × 3.0") | 2.3 mm (0.90") | 25 | 155 mm × 130 mm × 56 mm (6.1" × 5.1" × 2.2") | PFA |
| PA135-11-0603 carrier | 38 mm to 102 mm × 76 mm (1.5" to 4.0" × 3.0") | 2.3 mm (0.90") | 25 | 163 mm × 206 mm × 61 mm (6.4" × 8.1" × 2.3") | Blue polypropylene |
| A135-12-0215 carrier | 108.0 mm to 171.0 mm × 76.0 mm (4.25" to 6.75" × 3.00") | 2.3 mm (0.90") | 25 | 155 mm × 206 mm × 56 mm (6.1" × 8.1" × 2.2") | PFA |

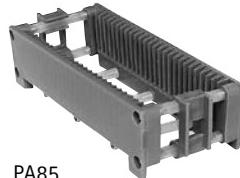
Miscellaneous Device Carriers (continued)

Custom Carriers

Custom carriers allow you to construct a carrier to your specific requirements.

- Use where a specified size is needed
- Rails permit universal assembly to accommodate various widths

- Sold as component parts only – assembly required



PA85

Carrier Construction

Each custom carrier is constructed of two side rails held together with a number of rods that have been cut to length and tapped. These side rails and rods are attached with two screws for every rod. The rods are then held together with two retaining clips. The exact number of rods and screws is dependent on the carrier series selected. You specify the rod length to fit your applications.

PA85 Series

- For square or rectangular devices
- Capacity: 25
- Pocket spacing: 4.76 mm (0.19")
- Pocket flat: 1.52 mm (0.06")
- Pocket depth: 25.4 mm (1.00")
- Length: 163 mm (6.4")
- Compatible handle: A031
- Compatible storage box: none
- Rod length is equal to the device length minus 10.67 mm (0.42")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

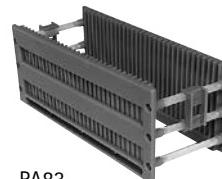
Ordering Information

| Part Number | Component Part | Quantity per Carrier | Material |
|--------------|----------------------|----------------------|-----------------------|
| PA85-01-0603 | Individual side rail | 2 | Blue polypropylene |
| PA85-04-0603 | Retaining clip | 2 | Blue polypropylene |
| 1511-034 | Screw | 14 | Stainless steel |
| 1112-031CR | Individual rod | 7 | Natural polypropylene |

When ordering, multiply the number of carriers desired by the quantity per carrier for each component. For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

PA83 Series

- For square or rectangular devices
- Wash openings for efficient cleaning
- Capacity: 30
- Pocket spacing: 6.35 mm (0.25")
- Pocket flat: 3.18 mm (0.13")
- Pocket depth: 69.8 mm (2.75")
- Length: 221 mm (8.7")
- A021 handle attaches to carrier end wall
- Compatible storage box: none
- Handle overall size: 241 mm × 15 mm × 267 mm (9.5" × 0.6" × 10.5")
- Rod length is equal to the device length minus 10.67 mm (0.42")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



PA83



A021

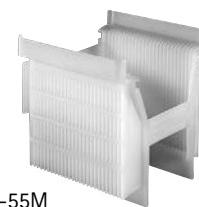
Ordering Information

| Part Number | Component Part | Quantity per Carrier | Material |
|---------------|----------------------|----------------------|---------------------------|
| PA83-01-0603 | Individual side rail | 2 | Blue polypropylene PFA |
| A83-01-0215 | | | |
| PA85-04-0603 | Retaining clip | 2 | Blue polypropylene |
| PA85-01-0603 | Individual side rail | 2 | Blue polypropylene |
| PA85-01-61C02 | Individual side rail | 2 | STAT-PRO 100 |
| 1511-034 | Screw | 18 | Stainless steel |
| 1112-031CR | Individual rod | 9 | Natural polypropylene |
| A021-031 | Handle | — | ETFE |
| 1112-031CR | Individual rod | 7 | Natural polypropylene |

When ordering, multiply the number of carriers desired by the quantity per carrier for each component. For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

Solar Cell Carriers

- For handling solar cells or other square devices
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A193-55M

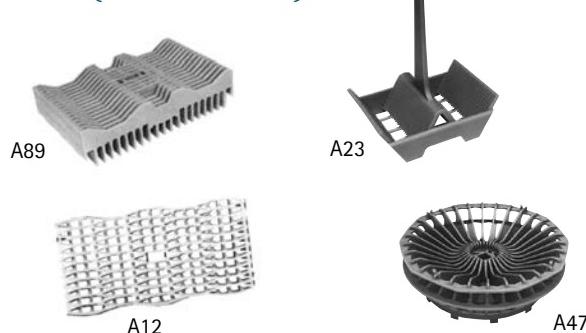
Ordering Information

| Part Number | Device Size (sq.) | Pocket Spacing | Pocket Flat | Capacity | Overall Size | Compatible Handles | Compatible Storage Boxes | Material |
|---------------|-------------------|-----------------|-----------------|----------|---|--------------------------------------|-------------------------------|----------|
| A193-55M-0515 | 125 mm | 4.76 mm (0.19") | 1.52 mm (0.06") | 25 | 144 mm × 152 mm × 152 mm (5.7" × 6.0" × 6.0") | A72-50-03 | — | PVDF |
| A92-39M-0215 | 100 mm | 4.76 mm (0.19") | 1.52 mm (0.06") | 25 | 143 mm × 123 mm × 114 mm (5.6" × 4.9" × 4.5") | A72-40-03 A72-40-06 PA72-40-03 | E34-102 E49-101 E46-101 | PFA |

Miscellaneous Device Carriers (continued)

Wafer Baskets

- For processing and handling substrates
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



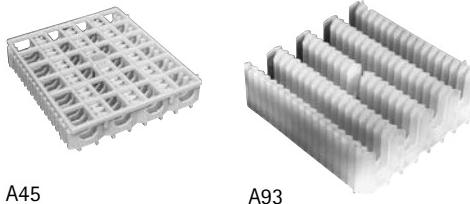
Ordering Information

| Part Number | Wafer Size | Capacity | Overall Size | Compatible Tanks | Compatible Handles | Notes | Material |
|------------------------|--|----------|---|-----------------------------|---|---|----------|
| A89-01-0215 basket | 13 mm, 30 mm, 64mm (0.5" x 1.2" x 2.5") | 52 | 175 mm x 112 mm x 43 mm (6.9" x 4.4" x 1.7") | E23-01 | A05, A08 | Pocket spacing: 71 mm (.28") for gallium arsenide wafers | PFA |
| A12-01-0215 basket | 13 mm to 38 mm (0.5" to 1.5") | 52 | 173 mm x 86 mm x 30 mm (6.8" x 3.4" x 1.2") | — | A05, A08 | Carrier inverted serves as cover | PFA |
| A47-01-0215 basket | 38.1 mm to 57.2 mm (1.5" to 2.25") | 30 | 160 mm dia x 51 mm (6.3" dia x 2.0") | E14-21-01 E14-25-01 | A01, A07, A029 | Numbered pockets | PFA |
| A23-0215 basket | 25 mm to 51 mm (1.0" to 2.0") | 50 | 132 mm x 89 mm x 145 mm (5.2" x 3.5" x 5.7") | — | — | Integral handle, bottom flow-through: 15.88 mm (0.63"); pocket spacing: 3.18 mm (0.13") | PFA |
| A17-01-0215 basket | 19.0 mm to 51 mm (0.75" to 2.0") | 20 | 122 mm x 89 mm x 28 mm (4.8" x 3.5" x 1.1") | — | A05, A08 | Pocket width: 6.4 mm (0.25") | PFA |
| A26-01-0215 basket | 15.88 mm to 51 mm (0.625" to 2.0") | 30 | 152 mm dia x 61 mm (6.0" dia x 2.4") | E14-25-01 | A01, A07, A029 | — | PFA |
| A15-01-0215 basket | 25 mm to 44.4 mm (1.0" to 1.75") | 24 | 177 mm dia x 46 mm (4.6" dia x 1.8") | E12 E14-10-01 E22-101 | A01, PA01, A07, PA07, A029, PA029 | — | PFA |
| A15-02-0215 cover | | | | | | | PFA |
| A14-01S-0215 basket | 15.88 mm to 31.8 mm (0.625" to 1.25") | 24 | 89 mm dia x 20 mm (3.5" dia x 0.8") | E12 | A01, A07, A029 | A14-01S-61C02 basket | PFA |
| A14-02S-0215 cover | | | | | | | PFA |
| A13-01-0215 basket | 13 mm to 28.58 mm (0.5" to 1.125") | 52 | 173 mm x 86 mm x 23 mm (6.8" x 3.4" x 0.9") | — | A07, A08 | Carrier inverted serves as cover | PFA |



LCD Carriers

- For handling LCDs and other devices
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

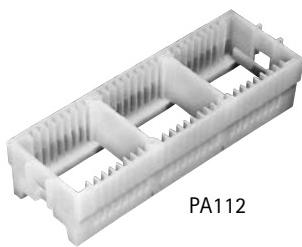


A45

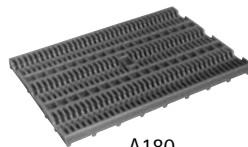
A93

Ordering Information

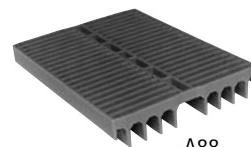
| Part Number | Pocket Length | Pocket Depth | Pocket Spacing | Overall Size | Compatible Handles | Capacity | Notes | Material |
|---------------------------|------------------|-----------------|-------------------|--|--------------------|----------|---|---------------------|
| A45-01B-0215 carrier | 23.0 mm (0.91") | 4.2 mm (0.16") | 13.6 mm (0.54") | 112 mm x 102 mm x 18 mm (4.4" x 4.0" x 0.7") | | 72 | For LCDs 14.2 mm x 21.6 mm (0.56" x 0.85"), | PFA |
| A45-04-0215 handle | | | | | | | A45-03 handle length: 165 mm (6.5"), A45-04 handle length: 254 mm (10.0") | PFA |
| A93-01-0603 carrier | 24.4 mm (0.960") | 4.1 mm (0.162") | 28.58 mm (1.125") | 109 mm x 103 mm x 39 mm (4.3" x 4.1" x 1.5") | A45-03 | 72 | Cover: A45-02 | Blue poly-propylene |
| PA112-12-108-0603 carrier | 32.0 mm (1.26") | 2.5 mm (0.10") | 27.4 mm (1.08") | 159 mm x 37 mm x 35 mm (6.3" x 1.5" x 1.4") | A031 | 25 | Wash openings Device transferable Stackable Pocket spacing: 4.76 mm (0.19") | Blue poly-propylene |
| A180-01-0603 carrier | 35.6 mm (1.400") | 3.2 mm (0.125") | 6.9 mm (0.28") | 203 mm x 142 mm x 13 mm (8.0" x 5.6" x 0.5") | PA08 | 106 | — | Blue poly-propylene |
| A88-0215 carrier | 66.1 mm (2.604") | 6.8 mm (0.266") | 20.8 mm (0.819") | 203 mm x 152 mm x 30 mm (8.0" x 6.0" x 1.2") | A05, A08 | 42 | For LCDs 66.5 mm long x 3.18 mm thick (2.50" x 0.13") | PFA |



PA112



A180

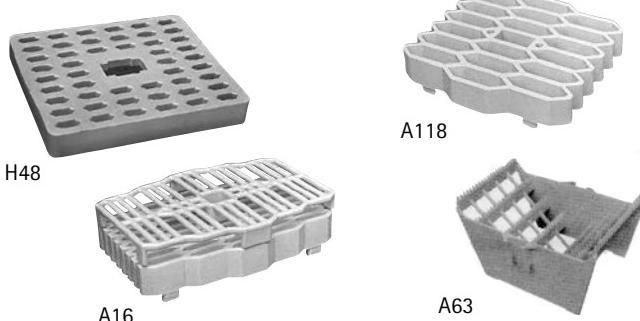


A88

Miscellaneous Device Carriers (continued)

Miscellaneous Carriers

- For handling miscellaneous devices
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



Ordering Information

| Part Number | Device Size | Pocket Length | Pocket Width | Pocket Depth | Capacity | Overall Size | Compatible Handles | Notes | Material |
|----------------------|---|-----------------|-----------------|-----------------|----------|--|--------------------|----------------------------------|--------------------|
| H48-01-0215 carrier | 7.9 mm dia (0.31") | 8.1 mm (0.32") | 3.6 mm (0.14") | 7.1 mm (0.281") | 48 | 64 mm x 71 mm x 13 mm (2.5" x 2.8" x 0.5") | A01, A07, A029 | | PFA |
| H48-02-0215 cover | | | | | | | | | PFA |
| A16-01-0215 carrier | 4.8 mm to 15.7 mm dia (0.19" to 0.62") | 16.5 mm (0.65") | 3.6 mm (0.14") | 9.1 mm (0.36") | 42 | 89 mm x 61 mm x 18 mm (3.5" x 2.4" x 0.7") | A05 | | PFA |
| A16-02-0215 cover | | | | | | | | | PFA |
| A118-01-0215 carrier | 25.4 mm (1.00") | 25.4 mm (1.00") | 7.9 mm (0.31") | 9.5 mm (0.38") | 18 | 76 mm x 74 mm x 15 mm (3.0" x 2.9" x 0.6") | A05, A08 | Wash openings in each pocket | PFA |
| A63-01-0603 carrier | 102 mm to 203 mm square or rectangular (4" to 8") | | 0.8 mm (0.030") | | 20 | 210 mm x 152 mm x 121 mm (8.3" x 6.0" x 4.8") | — | Pocket spacing: 5.84 mm (0.230") | Blue polypropylene |

Handles for Miscellaneous Products

Squeeze Style Handles

H93 Series

- Allows easy engagement and disengagement from the carrier
- Attaches to the notches in both end walls of the carrier
- Applying pressure to the center of the two cross members and squeezing causes the struts to separate
- For use with various miscellaneous carriers
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A031



PA031

Ordering Information

| Part Number | Overall Size (L × W × H) | Material |
|-------------|--|--------------------|
| A031-0215 | 173 mm × 15 mm × 259 mm (6.8" × 0.6" × 10.0") | PFA |
| PA031-0603 | | Blue polypropylene |

Stick Handles

- Rectangular or square styles
- For use with LCD carriers, miscellaneous carriers, wafer baskets and labware trays
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



A01, PA01

A07, PA07



PA029



A05



A08, PA08

Ordering Information

| Part Number | Style | Overall Size (L × W × H) | Description |
|-------------|-------------|---|--------------------|
| A01-0215 | Square | 10 mm × 10 mm × 193 mm (0.4" × 0.4" × 7.6") | PFA |
| PA01-0603 | | | Blue polypropylene |
| A07-0215 | Square | 10 mm × 10 mm × 229 mm (0.4" × 0.4" × 9.0") | PFA |
| PA07-0603 | | | Blue polypropylene |
| PA029-0603 | Square | 10 mm × 10 mm × 305 mm (0.4" × 0.4" × 12.0") | Blue polypropylene |
| A05-0215 | Rectangular | 15 mm × 8 mm × 163 mm (0.6" × 0.3" × 6.4") | PFA |
| A08-0215 | Rectangular | 15 mm × 8 mm × 229 mm (0.6" × 0.3" × 9.0") | PFA |
| PA08-0603 | | | Blue polypropylene |

Labware Products

Tweezers

- For substrate handling
- Packaged in protective cases, additional cases available

- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



Ordering Information

| Part Number | Tip Style and Size | Tip Thickness | Overall Size | Notes | Material |
|-------------|---------------------------------|----------------|------------------------------|--|----------------------------------|
| C01-0315 | Rounded, 0.8 mm (0.03"") radius | — | 127 mm x 13 mm (5.0" x 0.5") | — | ETFE |
| C01-0612 | — | 0.3 mm (0.01") | 124 mm x 13 mm (4.9" x 0.5") | — | White polypropylene |
| C10-0315 | — | 0.3 mm (0.01") | 124 mm x 13 mm (4.9" x 0.5") | — | ETFE |
| C12-0315 | Rounded, 1.5 mm (0.06"") radius | 0.3 mm (0.01") | 124 mm x 13 mm (4.9" x 0.5") | — | ETFE |
| C13-03F15 | Rounded, 1.5 mm (0.06"") radius | 0.3 mm (0.01") | 124 mm x 13 mm (4.9" x 0.5") | — | Glass-filled ETFE |
| C13-06F12 | — | 0.3 mm (0.01") | 124 mm x 13 mm (4.9" x 0.5") | — | Glass-filled white polypropylene |
| C14-0315 | Tapered, thin | — | 127 mm (5.0") | Tips slightly heavier than C10 and C12 | ETFE |
| C16-0315 | Rounded, 1.5 mm (0.06"") radius | 0.4 mm (0.01") | 178 mm x 15 mm (7.0" x 0.6") | — | ETFE |
| C20-0215 | Rounded, 1.5 mm (0.06"") radius | — | 127 mm x 13 mm (4.8" x 0.5") | Extra heavy for much stronger grip at ends | PFA |
| C20-06F12 | — | — | — | — | Glass-filled white polypropylene |

Tweezer Protective Case

- For tweezer storage
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

Ordering Information

| Part Number | Material |
|-------------|-----------------------|
| C16-01-1215 | Natural polypropylene |
| C18-01-0615 | Styrene/polystyrene |

Tongs

- For substrate handling
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



C30



C40



C50



C52

Ordering Information

| Part Number | Tip Style | Tip Width | Adjustable | Opening Width | Overall Size (L × W × H) | Notes | Material |
|-------------|-----------------------------------|-----------------|-----------------|------------------------------|--|--|----------|
| C30-0215 | Squared off with wafer stop horns | 9.6 mm (0.38") | No | — | 152 mm × 37 mm × 16 mm (6.0" × 1.5" × 0.6") | Does not damage substrate surface by over-grasping, comes with protective case | PFA |
| C40-0315 | Hooked inward with squared end | 2.5 mm (0.100") | Yes 4 positions | 254 mm to 152 mm (10" to 6") | 231 mm × 35 mm × 10 mm (9.9" × 1.2" × 0.4") | — | ETFE |
| C50-0315 | Squared off | 19 mm (0.75") | No | 2.2 mm (0.9") | 253 mm × 35 mm × 10 mm (10.3" × 1.4" × 0.8") | Extra length for deep tanks | ETFE |
| C52-0215 | Squared off | — | No | — | 190 mm × 19 mm (7.5" × 0.8") | Ideal for handling large plates | PFA |

Vacuum Probes and Tips

D43 Vacuum Probe

- Operated at the tip by placing finger over the hole on probe top
- End accepts 4.8 mm ($\frac{3}{16}$ ") I.D. hose
- Uses D42 tips or 4.1 mm (0.16") I.D. hypodermic needle
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



D43

Ordering Information

| Part Number | Material |
|-------------|--------------------|
| D43-0603 | Blue polypropylene |

Labware Products (continued)

Beakers

- Seamless with uniform wall thickness
- Molded ring on bottom ensures stability
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



D50

Ordering Information

| Part Number | Capacity | Diameter | Height | Material |
|--------------|-------------------|---------------|---------------|----------|
| D50-10-0215 | 100 ml (3.4 oz) | 53 mm (2.1") | 66 mm (2.6") | PFA |
| D50-60-0215 | 600 ml (20.3 oz) | 91 mm (3.6") | 121 mm (7.8") | PFA |
| D50-100-0215 | 1000 ml (33.8 oz) | 110 mm (4.3") | 144 mm (5.7") | PFA |

Funnel

- Spout tapers to 6.4 mm (0.25")
- D20 strainer tray fits inside funnel
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



D40

Ordering Information

| Part Number | Overall Size | Material |
|-------------|---------------------------------|----------|
| D40-0215 | 81 mm dia x 84 mm (3.2" x 3.3") | PFA |

Strainer Tray

- Use individually, stacked, or two trays may be locked together to form a rinse basket
- Choice of three different hole sizes
- Inside diameter: 76 mm (3.0")
- Overall size: 97 mm × 46 mm (3.8" × 1.8")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

Ordering Information

| Part Number | Overall Size | Material |
|--------------|---------------------|----------|
| D20-030-0215 | 0.76 mm dia (0.03") | PFA |
| D20-050-0215 | 1.3 mm dia (0.05") | PFA |
| D20-125-0215 | 3.2 mm dia (0.13") | PFA |



D20 Tray

Dippers

- Holds one wafer or one square plate
- Slot has "V" bottom
- Clip on handle slides down to hold substrates in place
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



D15



D14



D11

Ordering Information

| Part Number | Square Plate Size | Wafer Size | Maximum Thickness | Dipper Length | Material |
|-------------|--------------------------------------|---------------------------------------|-------------------|----------------|----------|
| D15-0215 | 14 mm to 203 mm (4.5" to 8.0") | 125 mm to 200 mm (5" to 6") | 6.4 mm (0.25") | 480 mm (18.9") | PFA |
| D14-0215 | 50 mm to 153 mm (2.0" to 6.0") | 57 mm to 125 mm (2.25" to 6") | 3.0 mm (0.12") | 265 mm (10.4") | PFA |
| D11-0215 | 51 mm and smaller (2.0" and smaller) | 57 mm and smaller (2.25" and smaller) | 1.5 mm (0.06") | 210 mm (8.3") | PFA |

Dipper Basket

- Used to clean or etch small pieces
- Hook on end of handle
- Contains 100 openings
- Fits in 400 ml (13.5 oz) and larger beakers
- Opening size: 5.6 mm sq. (0.22")
- Inside dimensions: 63 mm dia × 51 mm (2.5" × 2.0")
- Overall size: 68 mm dia × 235 mm (2.7" × 9.3")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.

Ordering Information

| Part Number | Material |
|-------------|----------|
| D10-0315 | ETFE |



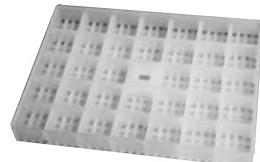
D10

Labware Products (continued)

Trays and Accessories

D34 Wash Trays

- Used to clean odd-sized devices
- Divided into 34 pockets with 16 wash openings each
- Cover sold separately
- Compatible handle: A01
- Pocket size: 20 mm sq. × 10 mm (0.8" × 0.4")
- Wash openings: 3.18 mm (0.13")
- Overall size: 170 mm × 127 mm × 18 mm (6.7" × 5.0" × 0.7")
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



D34

Ordering Information

| Part Number | Description | Material |
|-------------|-------------|----------|
| D34-01-0215 | Tray | PFA |
| D34-02-0215 | Cover | PFA |

E40 Handling and Storage Trays

- Holds devices for handling or storage
- Stackable
- Lead time: eight weeks
- For minimum order quantities (MOQ), contact Entegris Customer Service at +1 952 556 4181.



E40

Ordering Information

| Part Number | Square Plate Size | Pocket Size | Maximum Thickness | Material |
|--------------|-----------------------------------|---|-------------------|--------------------|
| E40-0603 | 14 mm to 203 mm (4.5" to 8.0") | 25 mm × 46 mm × 13 mm (1.0" × 1.8" × 0.5") | 6.4 mm (0.25") | Blue polypropylene |
| E40-12-0603 | 50 mm to 153 mm (2.0" to 6.0") | 64 mm × 71 mm × 13 mm (2.5" × 2.8" × 1.5") | 3.0 mm (0.12") | Blue polypropylene |
| E40-12-61C02 | | | | STAT-PRO 100 |

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| A07 | 29 | A72-50-03 | 7 | E93 | 5,6,8, |
| A08 | 29 | A72-50-04 | 7 | E95 | 6,8,13,15,18 |
| A021 | 25 | A72-50-04B | 7 | E96 | 6,8,13,15,18 |
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STAT-PRO Material Reference Table

| Material Name | Description |
|---------------|---|
| STAT-PRO 100 | Black, Static Protective Polypropylene |
| STAT-PRO 125 | Black, Static Protective Polypropylene |
| STAT-PRO 135 | Ceramic Filled Polypropylene |
| STAT-PRO 150 | Black, Conductive Polypropylene |
| STAT-PRO 175F | Carbon Fiber Filled PES |
| STAT-PRO 200 | Black, Static Protective Polypropylene |
| STAT-PRO 300 | Orange, Static Dissipative PFA |
| STAT-PRO 400 | Colorable, Static Dissipative ABS |
| STAT-PRO 425 | Transparent, Static Dissipative ABS |
| STAT-PRO 500 | Black, Conductive Polycarbonate |
| STAT-PRO 525 | Carbon Fiber Filler Polycarbonate |
| STAT-PRO 550 | Colorable, Stainless Steel Filled Polycarbonate |
| STAT-PRO 600 | Carbon Fiber Filled PES |
| STAT-PRO 650 | Carbon Fiber Filled Polysulfone |
| STAT-PRO 800 | Colorable, Carbon Fiber ULTEM® |
| STAT-PRO 825 | Colorable, Stainless Steel ULTEM |
| STAT-PRO 1000 | Black, Static Dissipative PFA |
| STAT-PRO 2000 | Static Dissipative PFA Material |
| STAT-PRO 3000 | Black, Static Dissipative PEEK™ with Carbon Fiber |

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